

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): David Jon Hiner et al.

Assignee: Amkor Technology, Inc.

Title: SEMICONDUCTOR PACKAGE INCLUDING TOP-SURFACE  
TERMINALS FOR MOUNTING ANOTHER SEMICONDUCTOR  
PACKAGE

Serial No.: 10/806,640 Filed: March 23, 2004

Examiner: Carl J. Arbes Group Art 3729  
Unit:

Docket No.: G0092-6P

Monterey, CA  
June 14, 2006

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER §1.97**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant(s) wish to call the following documents (a copy of each non-US Patent document is enclosed) to the attention of the Examiner.

At a minimum, this Information Disclosure Statement should be placed in the file pursuant to 37 C.F.R. § 1.97(i).

**U.S. PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	NAME
1)	3,868,724	02/25/75	Perrino
2)	3,916,434	10/28/75	Garboushian
3)	4,532,419	07/30/85	Takeda
4)	4,642,160	02/10/87	Burgess
5)	4,706,167	11/10/87	Sullivan
6)	4,716,049	12/29/87	Patraw
7)	4,786,952	11/22/88	MacIver et al.
8)	4,897,338	01/30/90	Spicciati et al.

9)	4,905,124	02/27/90	Banjo et al.
10)	4,964,212	10/23/90	Deroux-Dauphin et al.
11)	4,974,120	11/27/90	Kodai et al.
12)	4,996,391	02/26/91	Schmidt
13)	5,081,520	01/14/92	Yoshii et al.
14)	5,108,553	04/28/92	Foster et al.
15)	5,110,664	05/05/92	Nakanishi et al.
16)	5,247,429	09/21/93	Iwase et al.
17)	5,283,459	02/01/94	Hirano et al.
18)	5,371,654	12/06/94	Beaman et al.
19)	5,379,191	01/03/95	Carey et al.
20)	5,463,253	10/31/95	Waki et al.
21)	5,474,957	12/12/95	Urushima
22)	5,474,958	12/12/95	Djennas et al.
23)	5,530,288	06/25/96	Stone
24)	5,531,020	07/02/96	Durand et al.
25)	5,574,309	11/12/96	Papapietro et al.
26)	5,581,498	12/03/96	Ludwig et al.
27)	5,582,858	12/10/96	Adamopoulos et al.
28)	5,616,422	04/01/97	Ballard et al.
29)	5,637,832	06/10/97	Danner
30)	5,674,785	10/07/97	Akram et al.
31)	5,719,749	02/17/98	Stopperan
32)	5,739,581	04/14/98	Chillara
33)	5,739,585	04/14/98	Akram et al.
34)	5,739,588	04/14/98	Ishida et al.
35)	5,742,479	04/21/98	Asakura
36)	5,784,259	07/21/98	Asakura
37)	5,798,014	08/25/98	Weber
38)	5,822,190	10/13/98	Iwasaki
39)	5,826,330	10/27/98	Isoda et al.
40)	5,835,355	11/10/98	Dordi
41)	5,894,108	04/13/99	Mostafazadeh et al.
42)	5,903,052	05/11/99	Chen et al.

43)	5,936,843	08/10/99	Ohshima et al.
44)	5,952,611	09/14/99	Eng et al.
45)	6,004,619	12/21/99	Dippon et al.
46)	6,013,948	01/11/00	Akram et al.
47)	6,021,564	02/08/00	Hanson
48)	6,028,364	02/22/00	Ogino et al.
49)	6,034,427	03/07/00	Lan et al.
50)	6,040,622	03/21/00	Wallace
51)	6,060,778	05/09/00	Jeong et al.
52)	6,069,407	05/30/00	Hamzehdoost
53)	6,072,243	06/06/00	Nakanishi
54)	6,119,338	09/19/00	Wang et al.
55)	6,122,171	09/19/00	Akram et al.
56)	6,127,833	10/03/00	Wu et al.
57)	6,160,705	12/12/00	Stearns et al.
58)	6,172,419	01/09/01	Kinsman
59)	6,184,463	02/06/01	Panchou et al.
60)	6,214,641	04/10/01	Akram
61)	6,235,554	05/22/01	Akram et al.
62)	6,274,821	08/14/01	Echigo et al.
63)	6,280,641	08/28/01	Gaku et al.
64)	6,316,285	11/13/01	Jiang et al.
65)	6,353,999	03/12/02	Cheng
66)	6,392,160	05/21/02	Andry et al.
67)	6,395,578	05/28/02	Shin et al.
68)	6,405,431	06/18/02	Shin et al.
69)	6,406,942	06/18/02	Honda
70)	6,407,341	06/18/02	Anstrom et al.
71)	6,407,930	06/18/02	Hsu
72)	6,451,509	09/17/02	Keesler et al.
73)	6,479,762	11/12/02	Kusaka
74)	6,497,943	12/24/02	Jimarez et al.
75)	6,517,995	02/11/03	Jacobson et al.
76)	6,534,391	03/18/03	Huemoeller et al.

77)	6,544,638	04/08/03	Fischer et al.
78)	6,586,682	07/01/03	Strandberg
79)	6,660,559	12/09/03	Huemoeller et al.
80)	6,715,204	04/06/04	Tsukada et al.
81)	6,727,645	04/27/04	Tsujimura et al.
82)	6,730,857	05/04/04	Konrad et al.
83)	6,753,612	06/22/04	Adae-Amoakoh et al.
84)	6,787,443	09/07/04	Boggs et al.
85)	6,803,528	10/12/04	Koyanagi
86)	6,815,709	11/09/04	Clothier et al.
87)	6,815,739	11/09/04	Huff et al.
88)	2002/0017712	02/14/02	Bessho et al.
89)	2003/0128096	07/10/03	Mazzochette
90)	D445,096	07/17/01	Wallace
91)	D446,525	08/14/01	Okamoto et al.

#### FOREIGN DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY
1)	JP 05-109975	04/30/93	Japan
2)	JP 05-136323	06/01/93	Japan
3)	JP 07-017175	01/20/95	Japan
4)	JP 08-190615	07/23/96	Japan
5)	JP 10-334205	12/18/98	Japan

#### OTHER DOCUMENTS

1)	IBM Technical Disclosure Bulletin, "Microstructure Solder Mask by Means of a Laser", Vol. 36, Issue 11, p.589, Nov. 1, 1993. (NN9311589).
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A PTO form 1449 listing these documents is enclosed. The relevance of the non-English language documents is set forth in the enclosed English translations.

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;

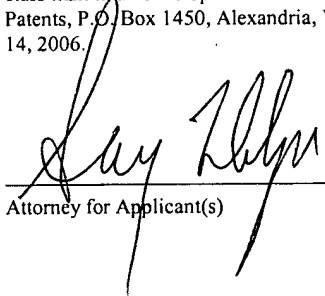
2. a representation that a search has been made, other than as described above; or

3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

The Commissioner is hereby authorized to charge any fees required for consideration of this Information Disclosure Statement, and to credit any overpayment of fees to Deposit Account No. 50-0553.

**CERTIFICATE OF MAILING**

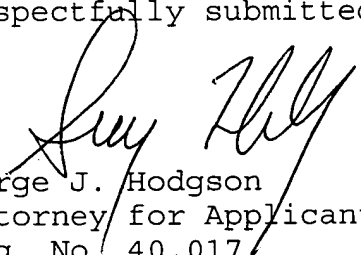
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 14, 2006.

  
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Attorney for Applicant(s)

June 14, 2006

Date of Signature

Respectfully submitted,

  
Serge J. Hodgson  
Attorney for Applicant(s)  
Reg. No. 40,017  
(831) 655-0880

Form PTO-1449

Atty Docket No.

G0092-6P

Serial No.

10/806,640

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

Applicant(s)

David Jon Hiner et al.

Filing Date

March 23, 2004

Group

3729

(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,868,724	02/25/75	Perrino	357	65	
	AB	3,916,434	10/28/75	Garboushian	357	74	
	AC	4,532,419	07/30/85	Takeda	235	492	
	AD	4,642,160	02/10/87	Burgess	156	630	
	AE	4,706,167	11/10/87	Sullivan	361	406	
	AF	4,716,049	12/29/87	Patraw	427	96	
	AG	4,786,952	11/22/88	MacIver et al.	357	23.4	
	AH	4,897,338	01/30/90	Spicciati et al.	430	314	
	AI	4,905,124	02/27/90	Banjo et al.	361	395	
	AJ	4,964,212	10/23/90	Deroux-Dauphin et al.	29	852	
	AK	4,974,120	11/27/90	Kodai et al.	361	392	
	AL	4,996,391	02/26/91	Schmidt	174	255	
	AM	5,081,520	01/14/92	Yoshii et al.	357	80	
	AN	5,108,553	04/28/92	Foster et al.	205	125	
	AO	5,110,664	05/05/92	Nakanishi et al.	428	195	
	AP	5,247,429	09/21/93	Iwase et al.	362	29	

**FOREIGN PATENT DOCUMENTS**

							Translation	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AQ	JP 05-109975	04/30/93	Japan			x	
	AR	JP 05-136323	06/01/93	Japan			x	
	AS	JP 07-017175	01/20/95	Japan			x	
	AT	JP 08-190615	07/23/96	Japan			x	
	AU	JP 10-334205	12/18/98	Japan			x	

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

	AV	IBM Technical Disclosure Bulletin, "Microstructure Solder Mask by Means of a Laser", Vol. 36, Issue 11, p.589, Nov. 1, 1993. (NN9311589).
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Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>  <b>IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				<b>Atty Docket No.</b> G0092-6P		<b>Serial No.</b> 10/806,640	
				<b>Applicant(s)</b> David Jon Hiner et al.			
				<b>Filing Date</b> March 23, 2004		<b>Group</b> 3729	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,283,459	02/01/94	Hirano et al.	257	419	
	AB	5,371,654	12/06/94	Beaman et al.	361	744	
	AC	5,379,191	01/03/95	Carey et al.	361	777	
	AD	5,463,253	10/31/95	Waki et al.	257	724	
	AE	5,474,957	12/12/95	Urushima	437	209	
	AF	5,474,958	12/12/95	Djennas et al.	437	211	
	AG	5,530,288	06/25/96	Stone	257	700	
	AH	5,531,020	07/02/96	Durand et al.	29	840	
	AI	5,574,309	11/12/96	Papapietro et al.	257	679	
	AJ	5,581,498	12/03/96	Ludwig et al.	365	63	
	AK	5,582,858	12/10/96	Adamopoulos et al.	427	96	
	AL	5,616,422	04/01/97	Ballard et al.	428	621	
	AM	5,637,832	06/10/97	Danner	174	260	
	AN	5,674,785	10/07/97	Akram et al.	437	217	
	AO	5,719,749	02/17/98	Stopperan	361	769	
	AP	5,739,581	04/14/98	Chillara	257	668	
	AQ	5,739,585	04/14/98	Akram et al.	257	698	
	AR	5,739,588	04/14/98	Ishida et al.	257	782	
	AS	5,742,479	04/21/98	Asakura	361	737	
	AT	5,784,259	07/21/98	Asakura	361	752	

FOREIGN PATENT DOCUMENTS								
							Translation	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AU							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	AV

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	AA	5,798,014	08/25/98	Weber	156	263	
	AB	5,822,190	10/13/98	Iwasaki	361	737	
	AC	5,826,330	10/27/98	Isoda et al.	29	852	
	AD	5,835,355	11/10/98	Dordi	361	760	
	AE	5,894,108	04/13/99	Mostafazadeh et al.	174	52.4	
	AF	5,903,052	05/11/99	Chen et al.	257	706	
	AG	5,936,843	08/10/99	Ohshima et al.	361	760	
	AH	5,952,611	09/14/99	Eng et al.	174	52.4	
	AI	6,004,619	12/21/99	Dippon et al.	427	97	
	AJ	6,013,948	01/11/00	Akram et al.	257	698	
	AK	6,021,564	02/08/00	Hanson	29	852	
	AL	6,028,364	02/22/00	Ogino et al.	257	778	
	AM	6,034,427	03/07/00	Lan et al.	257	698	
	AN	6,040,622	03/21/00	Wallace	257	679	
	AO	6,060,778	05/09/00	Jeong et al.	257	710	
	AP	6,069,407	05/30/00	Hamzehdoost	257	774	
	AQ	6,072,243	06/06/00	Nakanishi	257	783	
	AR	6,119,338	09/19/00	Wang et al.	29	852	
	AS	6,122,171	09/19/00	Akram et al.	361	704	
	AT	6,127,833	10/03/00	Wu et al.	324	755	

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Form PTO-1449				Atty Docket No. G0092-6P		Serial No. 10/806,640	
<b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				Applicant(s) David Jon Hiner et al.			
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<b>U.S. PATENT DOCUMENTS</b>							
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	AA	6,160,705	12/12/00	Stearns et al.	361	704	
	AB	6,172,419	01/09/01	Kinsman	257	737	
	AC	6,184,463	02/06/01	Panchou et al.	174	52.4	
	AD	6,214,641	04/10/01	Akram	438	107	
	AE	6,235,554	05/22/01	Akram et al.	438	109	
	AF	6,274,821	08/14/01	Echigo et al.	174	255	
	AG	6,280,641	08/28/01	Gaku et al.	216	17	
	AH	6,316,285	11/13/01	Jiang et al.	438	106	
	AI	6,353,999	03/12/02	Cheng	29	852	
	AJ	6,392,160	05/21/02	Andry et al.	174	261	
	AK	6,395,578	05/28/02	Shin et al.	438	106	
	AL	6,405,431	06/18/02	Shin et al.	29	852	
	AM	6,406,942	06/18/02	Honda	438	119	
	AN	6,407,341	06/18/02	Anstrom et al.	174	255	
	AO	6,407,930	06/18/02	Hsu	361	784	
	AP	6,451,509	09/17/02	Keesler et al.	430	311	
	AQ	6,479,762	11/12/02	Kusaka	174	261	
	AR	6,497,943	12/24/02	Jimarez et al.	428	209	
	AS	6,517,995	02/11/03	Jacobson et al.	430	320	
	AT	6,534,391	03/18/03	Huemoeller et al.	438	612	
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	AA	6,544,638	04/08/03	Fischer et al.	428	322.7	
	AB	6,586,682	07/01/03	Strandberg	174	255	
	AC	6,660,559	12/09/03	Huemoeller et al.	438	106	
	AD	6,715,204	04/06/04	Tsukada et al.	29	847	
	AE	6,727,645	04/27/04	Tsujimura et al.	313	504	
	AF	6,730,857	05/04/04	Konrad et al.	174	257	
	AG	6,753,612	06/22/04	Adae-Amoakoh et al.	257	774	
	AH	6,787,443	09/07/04	Boggs et al.	438	612	
	AI	6,803,528	10/12/04	Koyanagi	174	262	
	AJ	6,815,709	11/09/04	Clothier et al.	257	40	
	AK	6,815,739	11/09/04	Huff et al.	257	275	
	AL	2002/0017712	02/14/02	Bessho et al.	257	700	
	AM	2003/0128096	07/10/03	Mazzochette	338	22	
	AN	D445,096	07/17/01	Wallace	D14	117	
	AO	D446,525	08/14/01	Okamoto et al.	D14	436	
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	AQ						
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	AS						
	AT						

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